

Nicholas Yim

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EDUCATION

BS (Double Major): Computer Science / Electrical and Computer Engineering
RUTGERS UNIVERSITY

May 2025
New Brunswick, NJ

- **GPA: 3.9** | Dean's List all semesters | Eta Kappa Nu (HKN) Honor Society
- **Certifications:** AWS Certified Cloud Practitioner
- **Relevant Coursework:** Software Methodology, Data Structures, Software Engineering, Design & Analysis of Algorithms, Computer Arch. & Assembly Language, Linear Systems & Signals, Machine Learning, Intro to AI, Digital System Design

EXPERIENCE

Software Engineering Fellow

Jul. 2024 – Sept. 2024

HEADSTARTER AI

Remote

- Engineered 5+ AI/ML applications using Next.js, Flask, OpenAI, and vector databases, following Agile methodologies and the full SDLC process, culminating in a flagship project achieving over 1,000 users
- Spearheaded the development of a multimodal customer complaint analysis platform for a fintech startup; integrated Google Cloud APIs and OpenAI, resulting in a 50% reduction in processing times for customer inquiries
- Launched an interactive application centered on holistic health, integrating a RAG pipeline to source data from over 40 curated YouTube videos by reputable experts and subsequently trained 5 AI chatbots to provide personalized guidance

Fulfillment Technology Intern

Jun. 2024 – Aug. 2024

HELLOFRESH

Newark, NJ

- Refactored a complex SQL stored procedure into a Python script, increasing execution efficiency by 90% and facilitating faster financial reviews
- Deployed development updates tracked with Jira, improving workflow productivity across 10+ facilities in North America
- Addressed critical production issues on server-side via SQL queries and HighJump/Koerber WMS, leading to the effective management of over 300,000 inventory items per day
- Led comprehensive QA testing and wrote precise software design documentation for new features, streamlining workflows for 60+ team analysts/developers and boosting production deployment speed by 20%

Software Developer

Jan. 2024 - Jul. 2024

GYM EQUIPMENT WEBSITE

NJ

- Designed and tested 20+ core API features using Node.js for the "Gym Haven" e-commerce platform, enhancing user authentication with OAuth, securing payment processing with Stripe, and optimizing the shipping workflow with EasyPost
- Refined the database schema for MongoDB to optimize handling of over 100 user profiles and 500 product listings, resulting in faster data retrieval speed and benefiting the platform's long-term scalability
- Composed detailed reports containing UML system diagrams, application structure, and 40+ REST API endpoints

Data Science Extern

May 2023 – Aug. 2023

ECPAT (via RUTGERS MBS EXTERNSHIP EXCHANGE)

NJ

- Developed a robust crime mapping program using Python's Pandas, GeoPandas, and Matplotlib libraries, analyzing over 7 million crime incidents to identify high-risk areas and support targeted community safety initiatives
- Cleaned and processed millions of lines of crime data using Python and CSV files, improving data accuracy by 40%
- Generated intuitive visualizations in Tableau to illustrate trends and hotspots in trafficking and related crimes, enabling stakeholders to easily identify patterns and take action

PROJECTS

Intelligent LinkedIn Growth Facilitator | TypeScript, Python, Amazon RDS, OpenAI, Docker

Aug. 2024 - Present

- **Project Link:** <https://ghostlink.app/>
- Develop and launch an AI-powered full-stack application using Next.js and Flask, automating video transcription and LinkedIn post creation, reducing manual effort by 95%, and enabling users to publish engaging posts rapidly
- Train an AI model on top-performing LinkedIn posts, each with over 50,000 impressions and 500 reactions, to maximize user interaction and accelerate account growth
- Collaborate with creators (totaling 1.5M+ followers) and iterate on user feedback, improving user experience and ensuring the application aligns with current social media growth strategies

HackRU Hackathon (Winner) | Python, Streamlit, Amazon EC2

Feb. 2023

- Achieved 1st place in the health track out of 170 teams
- Created a web application using Python to calculate and display live crowd levels at on-campus fitness centers, designed to serve over 50,000 students and faculty based on real-time user input
- Deployed the website on a Linux server via an Amazon EC2 instance, ensuring scalability and reliability

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL (MySQL, PostgreSQL, SQL Server), MATLAB, HTML/CSS, C, C++

Frameworks: Node.js, Next.js, Flask, React.js, Jasmine, Jest, JUnit

Tools/Technologies: Git, VS Code, Jira, AWS, MongoDB, Pinecone, UML, Docker, Linux, Firebase, Tableau